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FILE LAST UPDATED: 12 Apr 2007 (20070412/ED)

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http://www.cas.org/infopolicy.html

=>
Uploading C:\Program Files\Stnexp\Queries\781.str

L1 STRUCTURE UPLOADED

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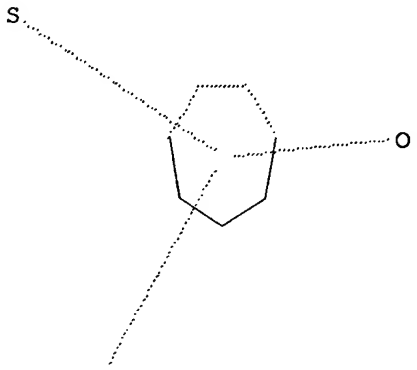
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:23:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 6914556 TO ITERATE

6.5% PROCESSED 450880 ITERATIONS 20 ANSWERS

11.7% PROCESSED 810862 ITERATIONS 30 ANSWERS

14.5% PROCESSED 1000000 ITERATIONS 32 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.44

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 6914556 TO 6914556
PROJECTED ANSWERS: 177 TO 265

L2 32 SEA SSS FUL L1

L3 8 L2

=> s l3 and PY<2002
21882609 PY<2002
L4 0 L3 AND PY<2002

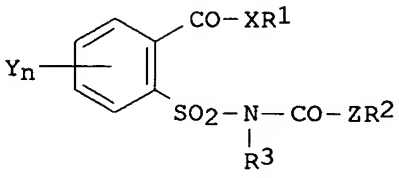
=> d l3 1-8 ibib abs hitstr

L3 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:227224 CAPLUS
DOCUMENT NUMBER: 146:268408
TITLE: Phenylsulfonylcarbamate derivatives as herbicide safeners
INVENTOR(S): Furuse, Katsumi; Takahashi, Satoru; Ohno, Shuji; Ogawa, Yasunori; Mitsunari, Takashi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 78pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023764	A1	20070301	WO 2006-JP316316	20060821

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-245544 A 20050826
GI



I

AB Phenylsulfonylcarbamate derivs. (I, wherein R1, R2, R3 = H, alkyl, etc.; Y = halo, NO2, etc.; n = 0-4 integer; X, Z = O, S) or salts thereof decrease

the harmful effect of herbicides against cultivated plants without loss of effectiveness. Thus, when benzobicyclon (40 g/10 are) was applied 5 days after transplanting rice in a pot experiment, growth inhibition was 20% at 29 days after transplanting, whereas when I (R1, R3 = H, R2 = 4-chlorobenzyl, X = O, n = 0) was applied at 240 g/10 are on the day after transplanting with the same benzobicyclon treatment, the growth inhibition with only 8%.

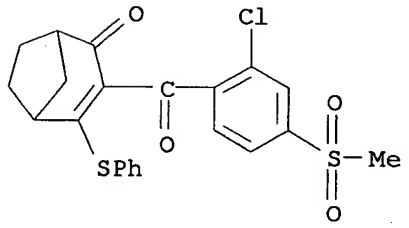
IT 927411-99-2
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + Bensulfuron-Me + compound III-1; safened herbicide composition)

RN 927411-99-2 CAPLUS

CN Benzoic acid, 2-[[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]-, methyl ester, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and methyl 2-[[(ethoxycarbonyl)amino]sulfonyl]benzoate (CA INDEX NAME)

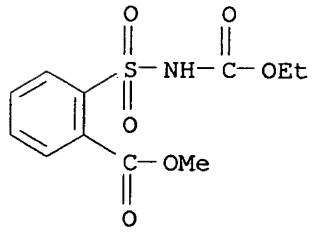
CM 1

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



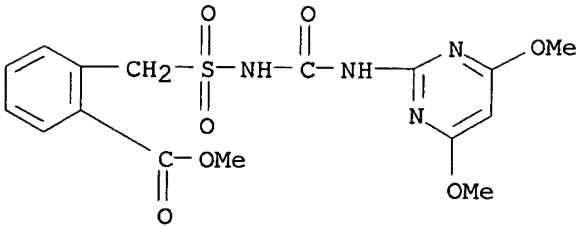
CM 2

CRN 83404-84-6
CMF C11 H13 N O6 S



CM 3

CRN 83055-99-6
CMF C16 H18 N4 O7 S



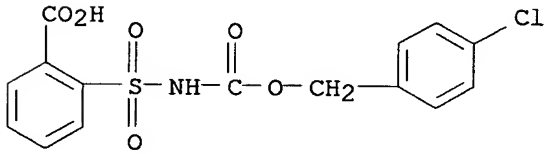
IT 927411-95-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + cafenstrole + compound I-36; safened herbicide composition)

RN 927411-95-8 CAPLUS

CN Benzoic acid, 2-[[[[(4-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and N,N-diethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]-1H-1,2,4-triazole-1-carboxamide (CA INDEX NAME)

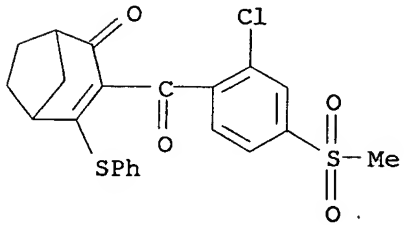
CM 1

CRN 808197-84-4
CMF C15 H12 Cl N O6 S



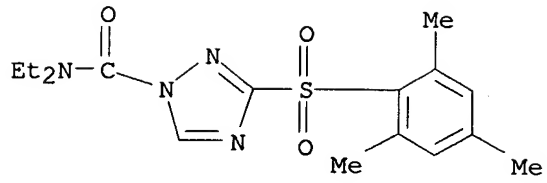
CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



CM 3

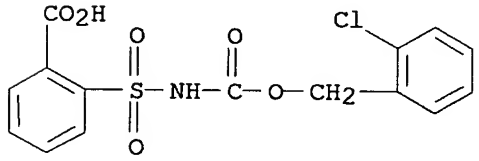
CRN 125306-83-4
CMF C16 H22 N4 O3 S



IT 927411-91-4
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + compound I-35; safened herbicide composition)
RN 927411-91-4 CAPLUS
CN Benzoic acid, 2-[[[[(2-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

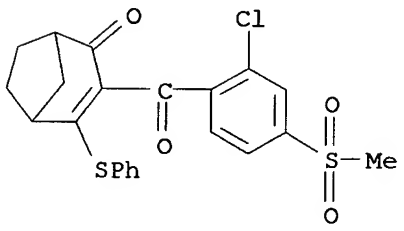
CM 1

CRN 808197-83-3
CMF C15 H12 Cl N O6 S



CM 2

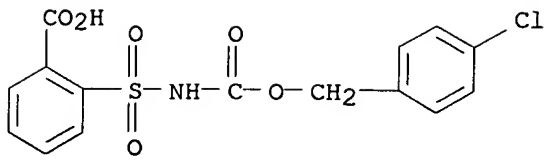
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



IT 927411-88-9
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + compound I-36; safened herbicide composition)
RN 927411-88-9 CAPLUS
CN Benzoic acid, 2-[[[[(4-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

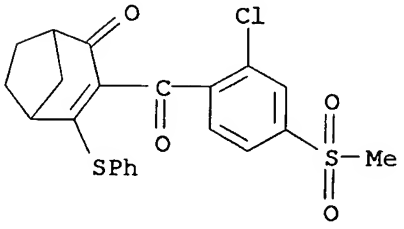
CM 1

CRN 808197-84-4
CMF C15 H12 Cl N O6 S



CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



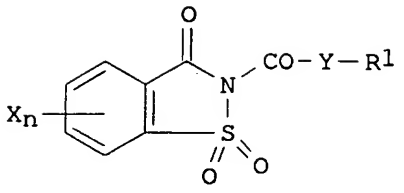
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:226871 CAPLUS
DOCUMENT NUMBER: 146:268407
TITLE: Benzoisothiazolinone dioxides as herbicide safeners
INVENTOR(S): Furuse, Katsumi; Ueno, Ryohei; Asakura, Sohei; Yonekura, Norihisa; Mitsunari, Takashi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 68pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023719	A1	20070301	WO 2006-JP316097	20060816

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-239757 A 20050822
GI



I

AB 1,2-Benzoisothiazolin-3-one-1,1-dioxide derivs. (I, wherein Y = O, S; R1 = C1-16 alkyl, C2-6 alkenyl, etc.; X = halo, NO2, alkyl, etc.; n = 0-4 integer) or salts thereof are extremely favorable for reducing chemical injury to cultivated plants without reducing weed control by herbicides. Thus, in a pot experiment I (Y = O, R1 = 4-chlorobenzyl, n = 0) was applied at 240 g/10 are on the day after transplanting (DAT) of rice, and benzobicyclon was applied at 20 g/10 are at 5 DAT. There was no inhibition of rice growth at 32 DAT, whereas rice growth inhibition was 6% when benzobicyclon was applied without the safener. In another experiment with benzobicyclon applied at 12.5 g/10 are, control of Scirpus juncoides was ≥90%, whether or not pots were pretreated with 240 g/10 are of the same I derivative

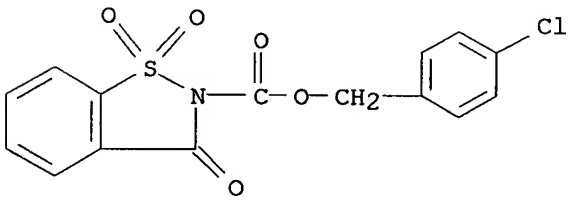
IT 927419-12-3 927419-15-6 927419-22-5
927419-26-9
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(safened herbicide compns.)

RN 927419-12-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

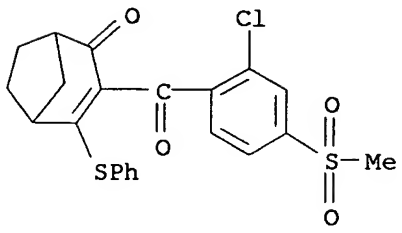
CM 1

CRN 863554-50-1
CMF C15 H10 Cl N O5 S



CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 927419-15-6 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (2-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

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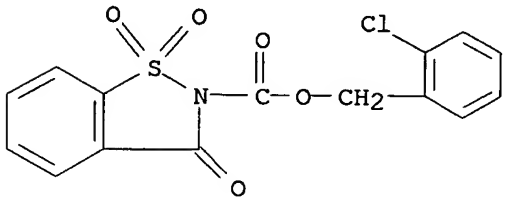
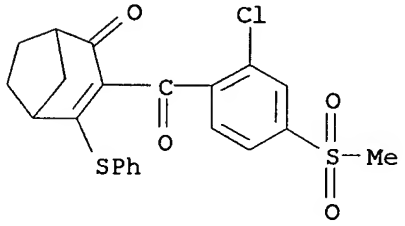
CRN 927419-03-2
CMF C15 H10 Cl N O5 S



CM 2

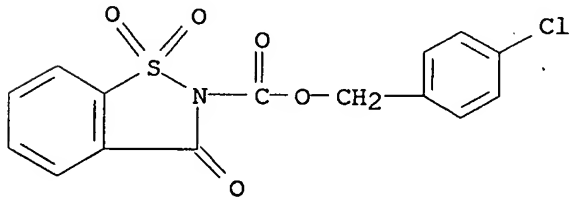
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 927419-22-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and N,N-diethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]-1H-1,2,4-triazole-1-carboxamide (CA INDEX NAME)

CM 1

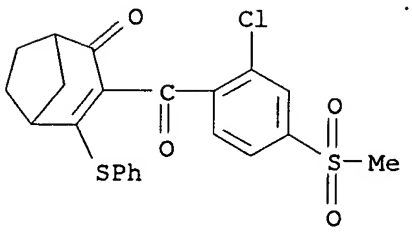
CRN 863554-50-1
CMF C15 H10 Cl N O5 S



CM 2

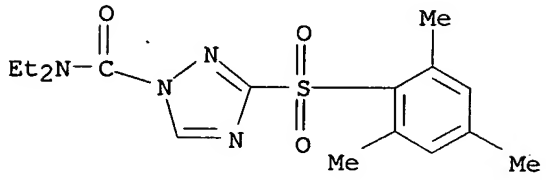
CRN 156963-66-5

CMF C22 H19 Cl O4 S2



CM 3

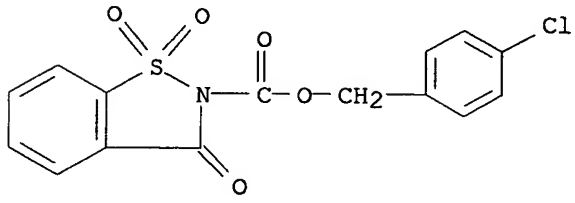
CRN 125306-83-4
CMF C16 H22 N4 O3 S



RN 927419-26-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and methyl 2-[[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]benzoate (CA INDEX NAME)

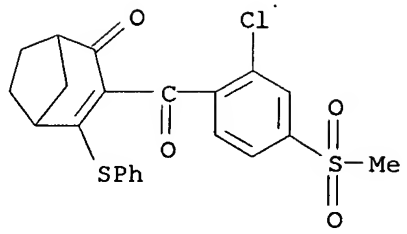
CM 1

CRN 863554-50-1
CMF C15 H10 Cl N O5 S



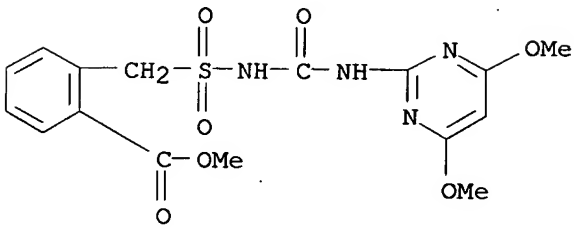
CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



CM 3

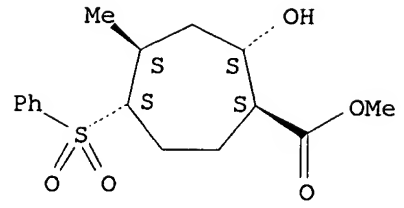
CRN 83055-99-6
CMF C16 H18 N4 O7 S



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

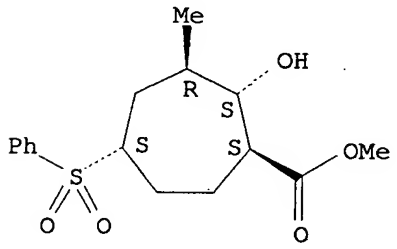
L3 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:120952 CAPLUS
DOCUMENT NUMBER: 146:206022
TITLE: Synthetic studies on the MARDi cascade: stereoselective preparation of sulfonyl-substituted seven-membered rings. [Erratum to document cited in CA146:100354]
AUTHOR(S): Coquerel, Yoann; Bensa, David; Moret, Vincent; Rodriguez, Jean
CORPORATE SOURCE: UMR CNRS 6178, Centre Universitaire de St. Jerome, Universite Paul Cezanne (Aix-Marseille III), Marseille, 13397/20, Fr.
SOURCE: Synlett (2006), (19), 3368
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
AB On page 2752, the chemical structure of cycloheptanol as compound (8) in Table 1 was incorrectly represented. The correct structure is given.
IT 917971-71-2P 917971-72-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation (Erratum))
RN 917971-71-2 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-4-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,4R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



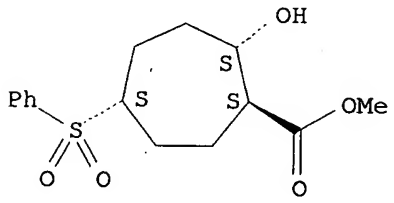
RN 917971-72-3 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-3-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



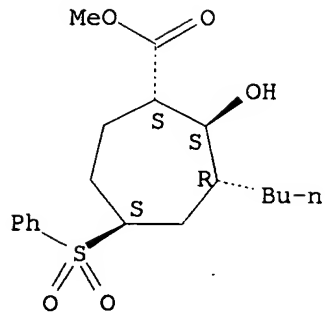
IT 917971-70-1P 917971-73-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation (Erratum))
RN 917971-70-1 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



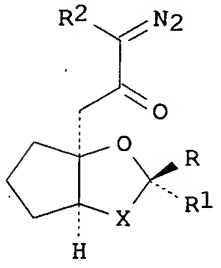
RN 917971-73-4 CAPLUS
CN Cycloheptanecarboxylic acid, 3-butyl-2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



L3 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1261562 CAPLUS
DOCUMENT NUMBER: 146:206186
TITLE: Polycyclic oxonium ylides - Use of cyclic acetals as convenient scaffolds in the construction of fused bicyclic compounds containing a medium ring
AUTHOR(S): Murphy, Graham K.; Marmsaeter, Fredrik P.; West, F. G.
CORPORATE SOURCE: Department of Chemistry, Gunning-Lemieux Chemistry Centre, University of Alberta, Edmonton, AB, T6G 2G2, Can.
SOURCE: Canadian Journal of Chemistry (2006), 84(10), 1470-1486
CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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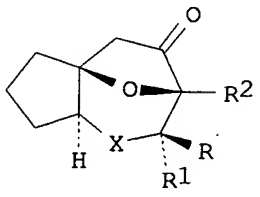


II

AB Cyclic mixed acetals and thioacetals I (R = H, MeO, 4-MeC6H4S; R1 = MeO, 4-MeC6H4S, H; R2 = H, EtO2C; X = CH2, CH2CH2) with pendant diazoketones undergo efficient rearrangement to ether-bridged cyclooctanoid and cycloheptanoid systems such as oxatricycles II (R = H, MeO, 4-MeC6H4S; R1 = MeO, 4-MeC6H4S, H; R2 = H, EtO2C; X = CH2, CH2CH2) upon treatment with copper bis(hexafluoroacetylacetonate). Other catalysts such as copper bis(trifluoroacetylacetonate), dirhodium tetraacetate, and dirhodium tetrakis(triphenylacetate) are significantly less effective in generating oxygen-bridged polycycles from I. A mechanism for the cyclocondensation is proposed; generation of oxonium ylides from I is followed by a [1,2]-shift to generate II. This work indicates that heteroatom-substituted oxonium ylides can undergo Stevens [1,2]-shifts. The arylthio moiety of products derived from mixed thioacetals can either be reductively cleaved or can be used to cleave the bridging ether.

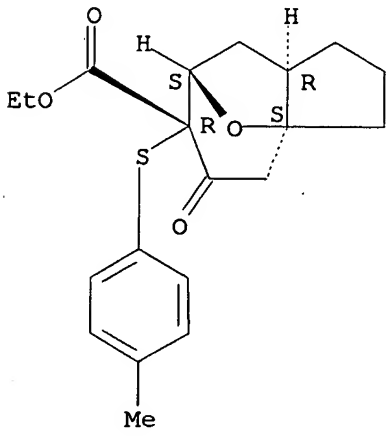
IT 923054-48-2P
RL: BYP (Byproduct); PREP (Preparation)
(byproduct in the stereoselective preparation of oxatricycles by ylide

formation and stereoselective rearrangement of diazoketones containing cyclic mixed acetals and thioacetals)

RN 923054-48-2 CAPLUS

CN 1H-3a,7-Epoxyazulene-6-carboxylic acid, octahydro-6-[(4-methylphenyl)thio]-5-oxo-, ethyl ester, (3aR,6S,7R,8aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



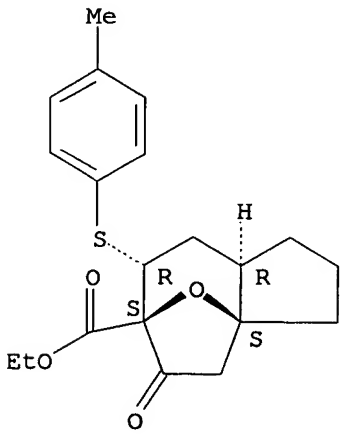
IT 923054-45-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of oxatricycles by ylide formation and stereoselective rearrangement of diazoketones containing cyclic mixed acetals and thioacetals)

RN 923054-45-9 CAPLUS

CN 6H-3a,6-Epoxyazulene-6-carboxylic acid, octahydro-7-[(4-methylphenyl)thio]-5-oxo-, ethyl ester, (3aR,6R,7S,8aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

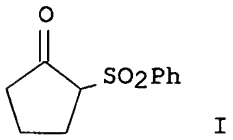
L3 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1188387 CAPLUS

DOCUMENT NUMBER: 146:100354

TITLE: Synthetic studies on the MARDi cascade: stereoselective preparation of sulfonyl-substituted seven-membered rings

AUTHOR(S): Coquerel, Yoann; Bensa, David; Moret, Vincent; Rodriguez, Jean
CORPORATE SOURCE: UMR CNRS 6178, Centre Universitaire de St Jerome, Universite Paul Cezanne (Aix-Marseille III), Marseille, 13397/20, Fr.
SOURCE: Synlett (2006), (17), 2751-2754
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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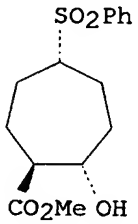


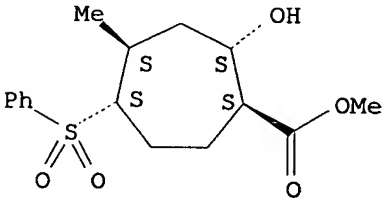
II

AB A stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes is described. The approach involves a formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation named the MARDi cascade (Michael Aldol Retro-Dieckmann). E.g., to a solution of β-keto sulfone I was added CH2:CHCHO and K2CO3 to give 62% cycloheptane II (dr 4:1).

IT 917971-71-2P 917971-72-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation)

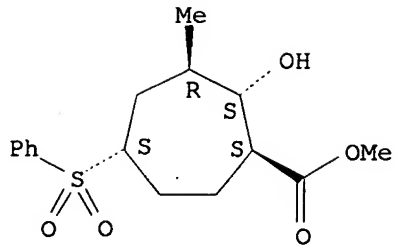
RN 917971-71-2 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-4-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,4R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



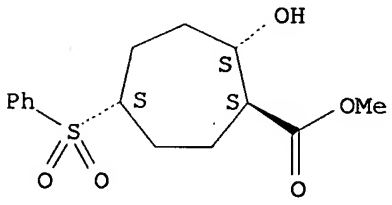
RN 917971-72-3 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-3-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



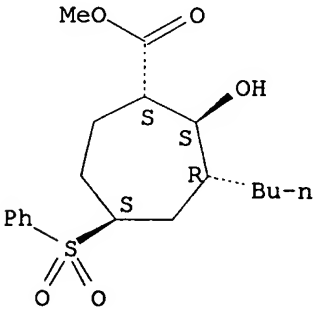
IT 917971-70-1P 917971-73-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation)
RN 917971-70-1 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 917971-73-4 CAPLUS
CN Cycloheptanecarboxylic acid, 3-butyl-2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

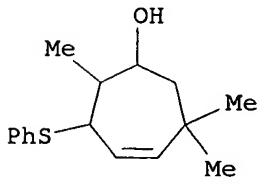
L3 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:744227 CAPLUS
TITLE: Chemical components of essential oils from Liquidambar orientalis Mill
AUTHOR(S): Yao, Faye; Qiu, Qin; Cui, Zhaojie; Su, Demin
CORPORATE SOURCE: Department of Chemistry, Shandong Institute of Education, Jinan, 250013, Peop. Rep. China
SOURCE: Yaowu Fenxi Zazhi (2005), 25(7), 859-862

CODEN: YFZADL; ISSN: 0254-1793
PUBLISHER: Yaowu Fenxi Zazhi Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

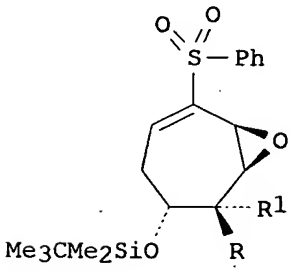
AB To analyze the chemical constituents of volatile oil from the root of Liquidambar orientalis Mill, the volatile oils from roots of Liquidambar orientalis Mill was extracted by SFE CO2, and analyzed by gas chromatog.-mass spectrometry (GC-MS). Fifty compds. were identified, which represented 87% of the total GC peak area of the volatile oil. The present study provides scientific bases for the Liquidambar orientalis Mill exploitation in reason.

IT 929903-86-6
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(chemical constituents of volatile oils of Liquidambar)

RN 929903-86-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



L3 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:600049 CAPLUS
DOCUMENT NUMBER: 145:248986
TITLE: Double Lawton SN2' Addition to Epoxyvinyl Sulfones: Selective Construction of the Stereotetrads of Aplyronine A
AUTHOR(S): El-Awa, Ahmad; Fuchs, Philip
CORPORATE SOURCE: Department of Chemistry, Purdue University, West Lafayette, IN, 47907, USA
SOURCE: Organic Letters (2006), 8(14), 2905-2908
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:248986
GI



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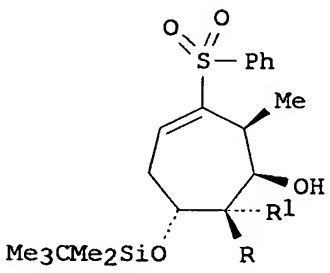


II

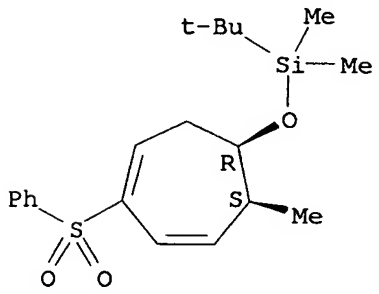
AB Enantiopure epoxyvinyl sulfones I (R = Me, R1 = H; R = H, R1 = Me) function as templates for the diastereoselective construction of the three stereotetrads of aplyronine A. Lawton SN2' addition of 3,5-dimethylpyrazole

followed by its displacement in an alc.-directed Lawton SN2' reaction establishes the required product, di-Me alc. II, stereochem. with high selectivity.

IT 906076-60-6 906076-63-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of stereotetrads of aplyronine A via double Lawton nucleophilic substitution to epoxyvinyl sulfones)

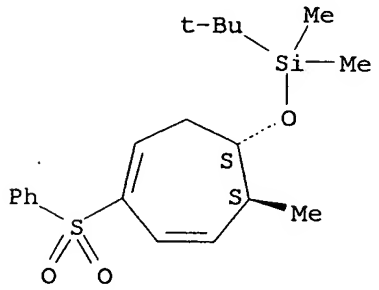
RN 906076-60-6 CAPLUS
CN Silane, (1,1-dimethylethyl)dimethyl[[(1R,2S)-2-methyl-5-(phenylsulfonyl)-3,5-cycloheptadien-1-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 906076-63-9 CAPLUS
CN Silane, (1,1-dimethylethyl)dimethyl[[(1S,2S)-2-methyl-5-(phenylsulfonyl)-3,5-cycloheptadien-1-yl]oxy]- (9CI) (CA INDEX NAME)

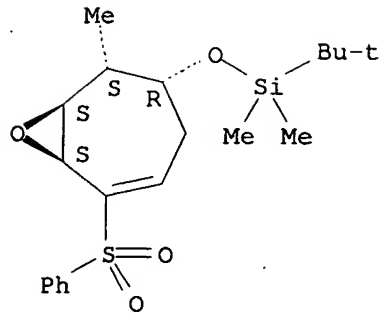
Absolute stereochemistry.



IT 906076-66-2P 906076-69-5P 906076-70-8P
906076-72-0P 906076-73-1P 906076-78-6P
906076-87-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of stereotetrads of aplyronine A via double Lawton nucleophilic substitution to epoxyvinyl sulfones)

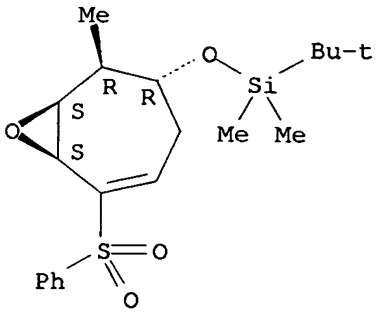
RN 906076-66-2 CAPLUS
CN Silane, (1,1-dimethylethyl)dimethyl[[(1S,2S,3R,7S)-2-methyl-6-(phenylsulfonyl)-8-oxabicyclo[5.1.0]oct-5-en-3-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



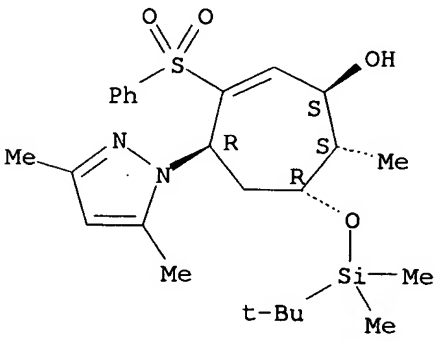
RN 906076-69-5 CAPLUS
CN Silane, (1,1-dimethylethyl)dimethyl[[(1S,2R,3R,7S)-2-methyl-6-(phenylsulfonyl)-8-oxabicyclo[5.1.0]oct-5-en-3-yl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



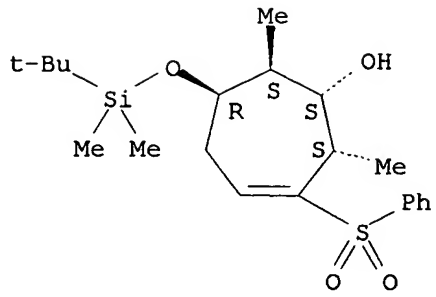
RN 906076-70-8 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-(3,5-dimethyl-1H-pyrazol-1-yl)-7-methyl-3-(phenylsulfonyl)-, (1S,4R,6R,7S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



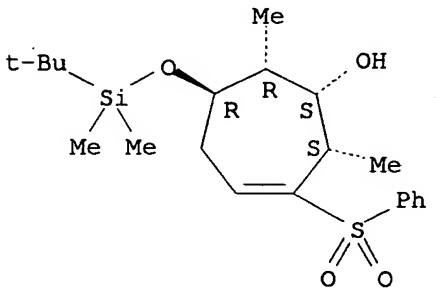
RN 906076-72-0 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1S,2S,6R,7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



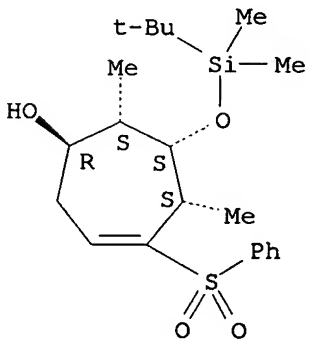
RN 906076-73-1 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1S,2S,6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



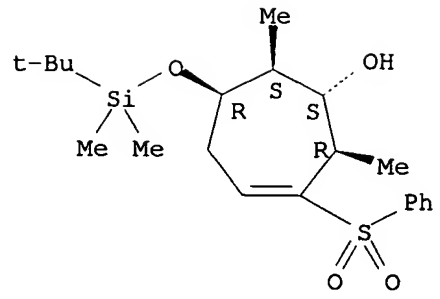
RN 906076-78-6 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-5,7-dimethyl-4-(phenylsulfonyl)-, (1R,5S,6S,7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



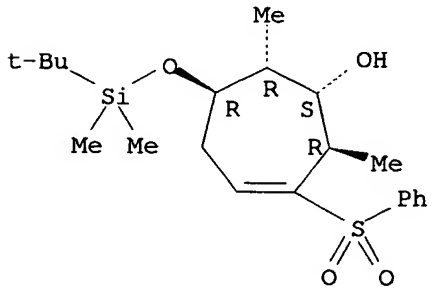
RN 906076-87-7 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1S,2R,6R,7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



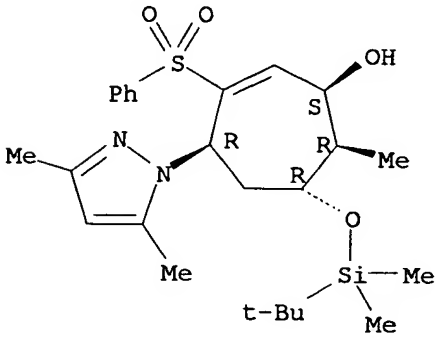
IT 906076-91-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of stereotetrads of aplyronine A via double Lawton nucleophilic substitution to epoxyvinyl sulfones)
RN 906076-91-3 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1S,2R,6R,7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 906076-71-9P 906076-75-3P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of stereotetrads of aplyronine A via double Lawton nucleophilic substitution to epoxyvinyl sulfones and crystal structure)
RN 906076-71-9 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-(3,5-dimethyl-1H-pyrazol-1-yl)-7-methyl-3-(phenylsulfonyl)-, (1S,4R,6R,7R)- (9CI) (CA INDEX NAME)

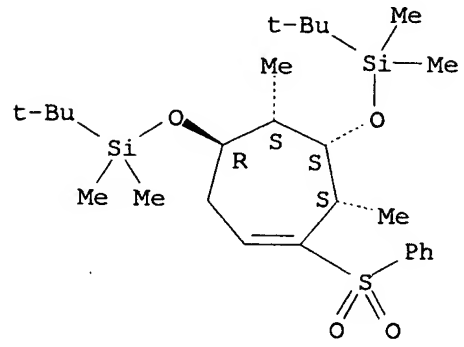
Absolute stereochemistry.



RN 906076-75-3 CAPLUS
CN Silane, [[(1R,2S,3S,4S)-2,4-dimethyl-5-(phenylsulfonyl)-5-cycloheptene-1,3-

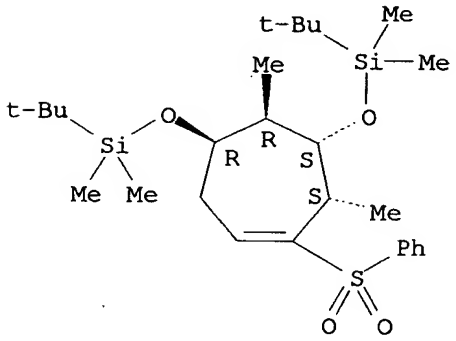
diyl]bis(oxy)]bis[(1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



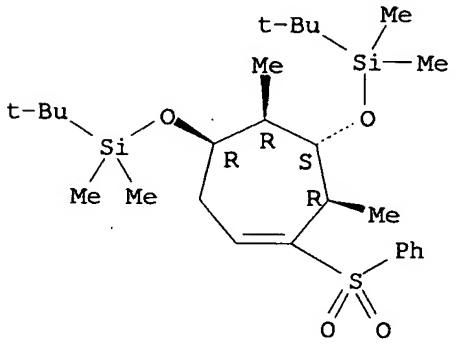
IT 906076-74-2P 906076-90-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of stereotetrads of aplyronine A via double Lawton nucleophilic substitution to epoxyvinyl sulfones and crystal structure)
RN 906076-74-2 CAPLUS
CN Silane, [[(1R,2R,3S,4S)-2,4-dimethyl-5-(phenylsulfonyl)-5-cycloheptene-1,3-diyl]bis(oxy)]bis[(1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 906076-90-2 CAPLUS
CN Silane, [[(1R,2R,3S,4R)-2,4-dimethyl-5-(phenylsulfonyl)-5-cycloheptene-1,3-diyl]bis(oxy)]bis[(1,1-dimethylethyl)dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

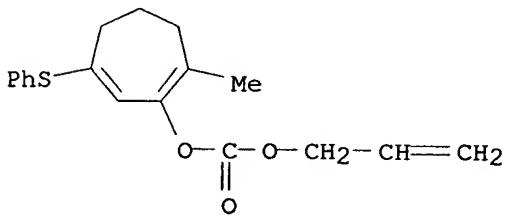
L3 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:496434 CAPLUS
DOCUMENT NUMBER: 145:166888
TITLE: Asymmetric allylic alkylation of cyclic vinylogous esters and thioesters by Pd-catalyzed decarboxylation of enol carbonate and β-keto ester substrates
AUTHOR(S): Trost, Barry M.; Bream, Robert N.; Xu, Jiayi
CORPORATE SOURCE: Department of Chemistry, Stanford University, Stanford, CA, 94305-5080, USA
SOURCE: Angewandte Chemie, International Edition (2006), 45(19), 3109-3112
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:166888

AB Excellent yields and enantioselectivities were achieved for the palladium-catalyzed asym. allylic alkylation of vinylogous thioesters. The close-to-neutral reaction conditions ensure that this reaction can tolerate a wide range of functionalities. Furthermore, this approach provides a convenient protocol for the synthesis of synthetically important α,α- and γ,γ-disubstituted cycloalkenones.

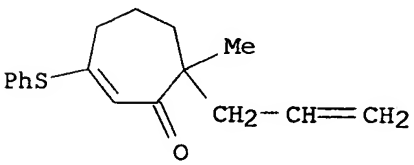
IT 900493-60-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(asym. allylic alkylation of cyclic vinylogous esters and thioesters by Pd-catalyzed decarboxylation of enol carbonates and β-keto esters)

RN 900493-60-9 CAPLUS
CN Carbonic acid, 2-methyl-6-(phenylthio)-1,6-cycloheptadien-1-yl 2-propenyl ester (9CI) (CA INDEX NAME)



IT 900493-67-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. allylic alkylation of cyclic vinylogous esters and thioesters by Pd-catalyzed decarboxylation of enol carbonates and β-keto esters)

RN 900493-67-6 CAPLUS
CN 2-Cyclohepten-1-one, 7-methyl-3-(phenylthio)-7-(2-propenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT